

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P967913

Luminaire Tested: **NAV-SB5A-835-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5A-835-U-SLR
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21465.5 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

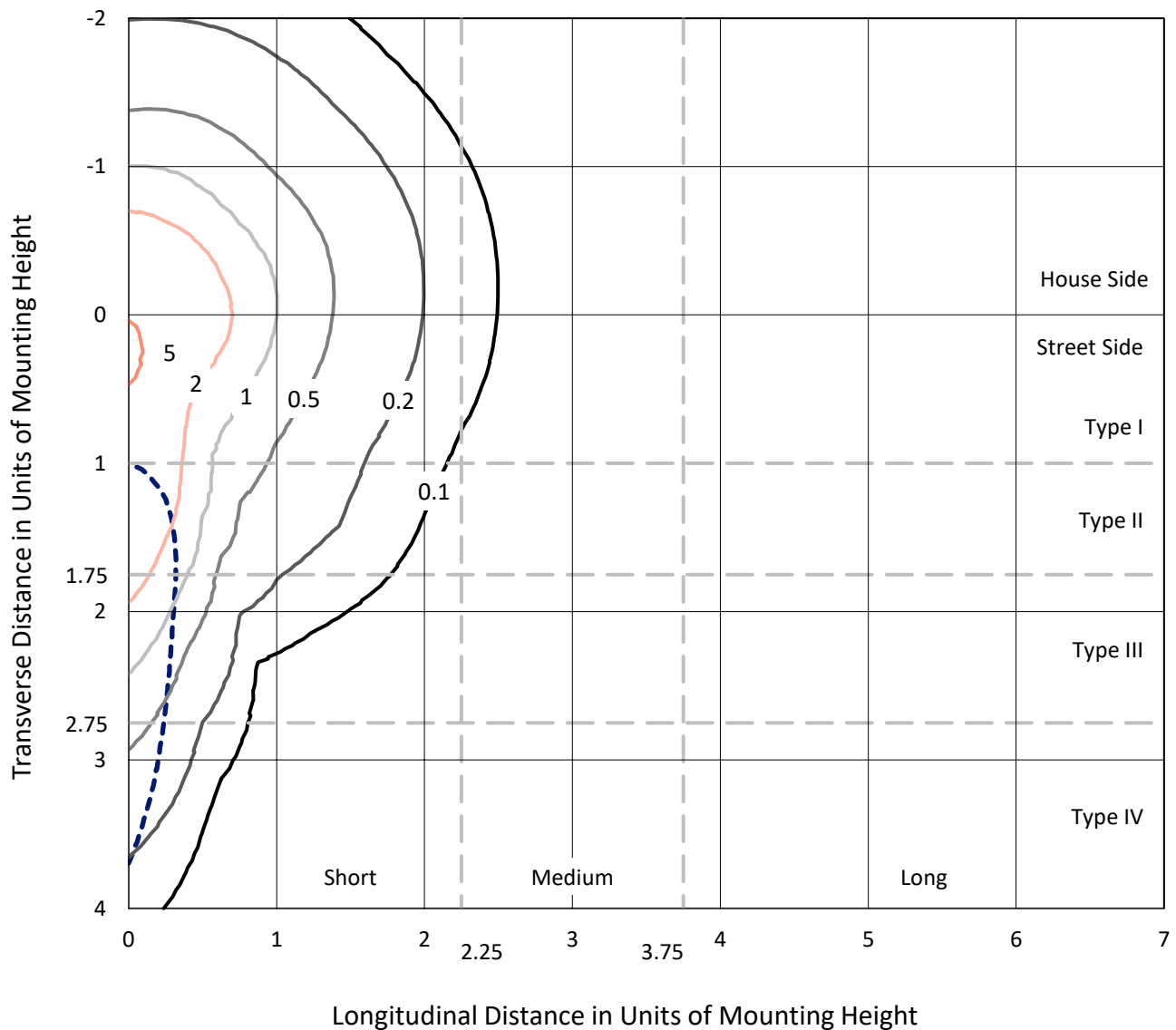


REPORT NUMBER: P967913

CATALOG NUMBER: NAV-SB5A-835-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

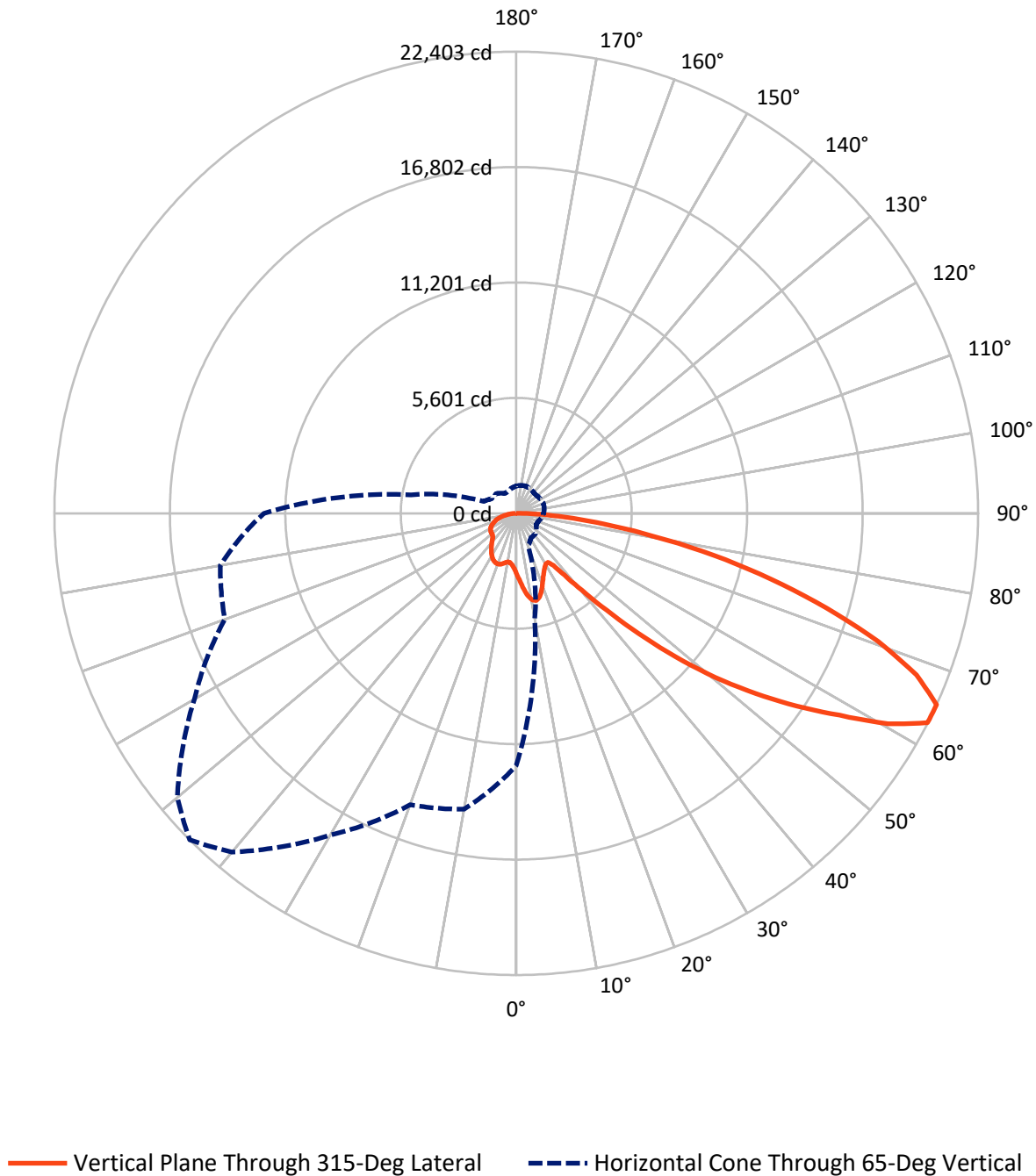
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type IV - Short - N/A

REPORT NUMBER: P967913
CATALOG NUMBER: NAV-SB5A-835-U-SLR

Luminous Intensity Polar Plot



REPORT NUMBER: P967913

CATALOG NUMBER: NAV-SB5A-835-U-SLR

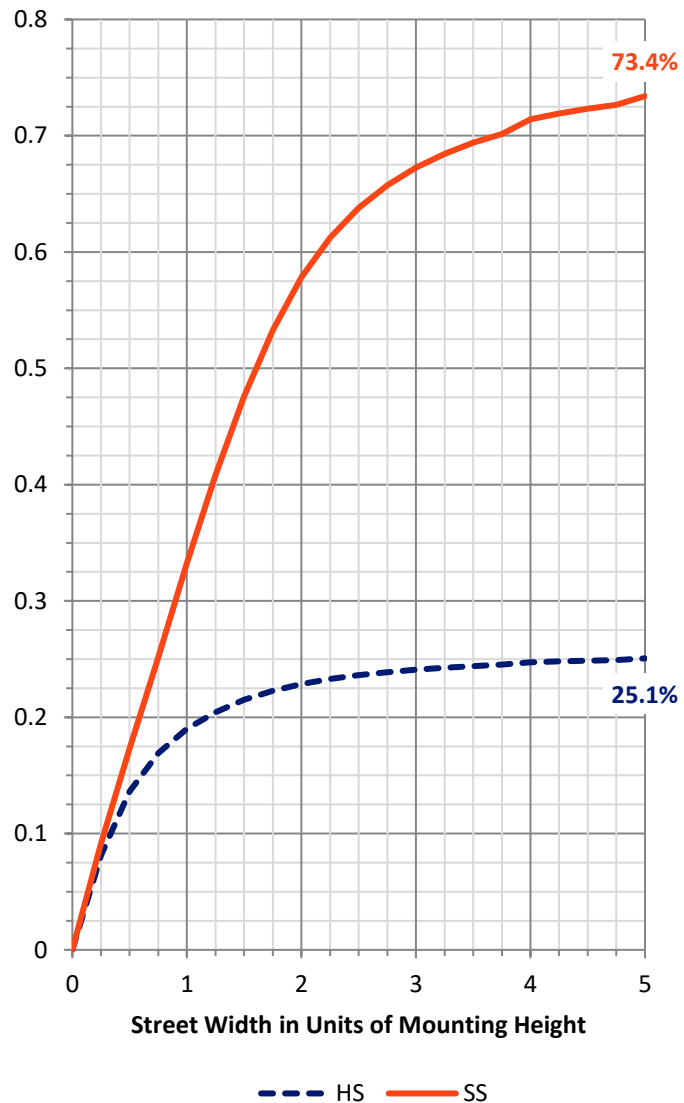
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5455.5	0.0	5455.5
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	16010.1	0.0	16010.1
	% Fixture	74.6	0.0	74.6
Total	Lumens	21465.5	0.0	21465.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.8	1.4
10°-20°	919.2	4.3
20°-30°	1419.8	6.6
30°-40°	1799.3	8.4
40°-50°	2713.7	12.6
50°-60°	4384.4	20.4
60°-70°	5465.9	25.5
70°-80°	3584.3	16.7
80°-90°	886.1	4.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21465.5	100.0
0°-180°	21465.5	100.0

Coefficient of Utilization



REPORT NUMBER: P967913

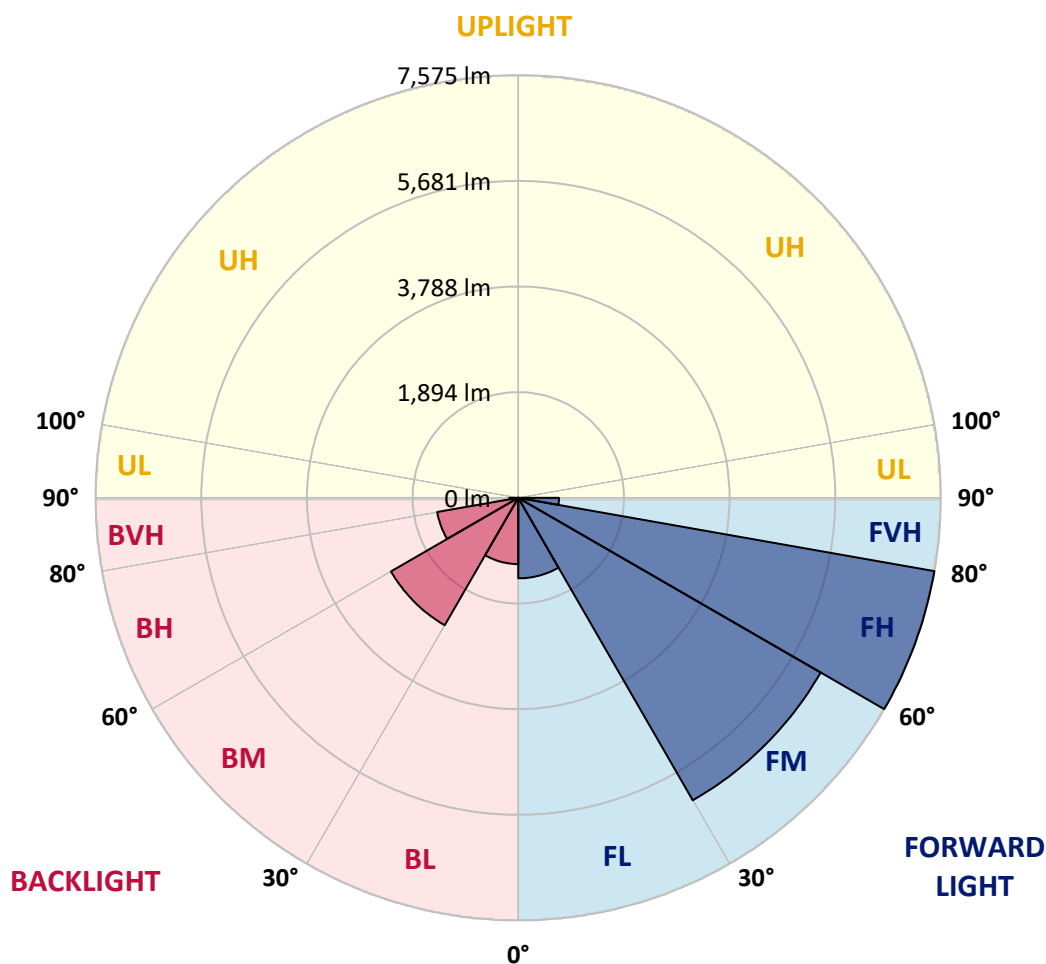
CATALOG NUMBER: NAV-SB5A-835-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1443.8	6.7			
FM	(30°-60°)	6261.0	29.2			
FH	(60°-80°)	7575.3	35.3			G4/12000
FVH	(80°-90°)	730.0	3.4			G4/750
BL	(0°-30°)	1188.0	5.5	B3/2500		
BM	(30°-60°)	2636.4	12.3	B3/5000		
BH	(60°-80°)	1474.9	6.9	B3/2500		G3/2500
BVH	(80°-90°)	156.2	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



REPORT NUMBER: P967913

CATALOG NUMBER: NAV-SB5A-835-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7
2.5°	3174.2	3149.9	3125.5	3099.6	3073.8	3047.7	3021.7	2996.8	2971.9	2947.7	2920.8
5°	3413.2	3359.4	3305.6	3251.9	3198.4	3144.4	3090.5	3040.0	2989.6	2942.1	2895.1
7.5°	3653.4	3564.5	3475.9	3393.9	3311.9	3232.0	3152.2	3081.9	3011.6	2946.6	2885.8
10°	3837.4	3725.2	3612.9	3504.6	3396.2	3299.3	3202.2	3119.1	3035.7	2955.7	2890.3
12.5°	3950.1	3826.8	3703.5	3580.7	3458.0	3343.6	3229.2	3135.1	3041.0	2956.8	2895.9
15°	4018.6	3890.1	3761.5	3628.3	3495.1	3363.4	3231.7	3122.8	3013.8	2920.5	2871.8
17.5°	4057.2	3926.8	3796.4	3651.2	3505.8	3352.9	3199.9	3069.0	2937.9	2828.3	2798.2
20°	4099.7	3964.2	3828.6	3668.9	3509.2	3323.9	3138.5	2976.2	2813.7	2686.1	2678.1
22.5°	4148.9	4010.5	3871.9	3692.9	3513.7	3288.3	3062.9	2867.3	2671.7	2526.4	2541.9
25°	4212.3	4076.6	3941.0	3736.4	3531.6	3253.2	2975.0	2745.8	2516.8	2367.9	2409.7
27.5°	4298.4	4169.1	4039.6	3804.4	3568.9	3229.8	2890.5	2634.7	2378.8	2243.2	2294.2
30°	4414.6	4289.5	4164.6	3892.3	3620.2	3218.8	2817.1	2541.8	2266.5	2152.6	2192.6
32.5°	4551.6	4427.8	4304.1	3984.2	3664.4	3205.2	2745.8	2461.7	2177.5	2085.8	2103.6
35°	4718.1	4599.6	4481.0	4088.9	3696.8	3179.5	2662.6	2383.0	2103.3	2026.8	2019.6
37.5°	4998.4	4847.3	4696.2	4206.1	3716.0	3135.8	2555.5	2290.4	2025.2	1958.4	1931.4
40°	5422.0	5201.9	4981.6	4354.9	3728.1	3075.4	2422.8	2179.8	1936.8	1876.3	1834.9
42.5°	5983.8	5666.0	5348.1	4549.7	3751.1	3013.1	2275.3	2057.8	1840.4	1784.5	1732.4
45°	6677.6	6248.8	5820.2	4805.8	3791.6	2955.2	2119.0	1928.2	1737.5	1680.9	1630.5
47.5°	7545.2	6941.8	6338.3	5078.8	3819.4	2907.4	1995.5	1825.7	1656.0	1582.9	1539.6
50°	8682.4	7772.8	6863.0	5332.0	3801.2	2855.3	1909.5	1757.7	1605.9	1509.8	1459.4
52.5°	9987.7	8645.6	7303.3	5496.6	3689.6	2767.3	1845.1	1712.8	1580.7	1470.2	1399.7
55°	11377.5	9419.3	7461.4	5460.3	3459.2	2621.4	1783.7	1680.3	1576.9	1474.2	1368.1
57.5°	12641.5	9967.8	7294.1	5205.3	3116.5	2415.7	1714.8	1641.7	1568.8	1478.2	1349.0
60°	13405.6	10104.9	6804.1	4730.6	2657.0	2148.6	1640.3	1582.9	1525.5	1465.6	1331.1
62.5°	13017.6	9527.8	6038.0	4088.6	2139.4	1829.0	1518.6	1480.5	1442.5	1435.1	1310.3
65°	12241.2	8711.3	5181.4	3433.7	1686.3	1541.4	1396.6	1378.5	1360.6	1361.4	1266.3
67.5°	11200.8	7739.6	4278.2	2792.2	1306.2	1265.1	1223.8	1233.9	1243.8	1241.4	1188.0
70°	9950.9	6679.3	3407.6	2198.5	989.3	1001.1	1012.8	1059.4	1106.1	1106.1	1088.4
72.5°	8461.5	5529.9	2598.3	1680.8	763.2	798.7	834.2	900.4	966.4	977.4	977.7
75°	6577.3	4212.2	1847.2	1219.9	592.7	624.7	656.9	731.0	805.1	856.3	852.0
77.5°	4699.4	2948.2	1197.0	826.7	456.2	478.1	500.1	571.9	643.9	728.3	726.0
80°	3075.7	1899.4	723.2	532.6	342.0	351.2	360.2	421.1	482.0	582.7	582.4
82.5°	1787.9	1099.3	410.9	327.6	244.5	246.0	247.8	292.6	337.5	423.6	428.3
85°	786.6	494.6	202.5	175.1	147.8	147.0	146.1	179.0	211.8	275.8	282.1
87.5°	243.5	162.0	80.5	72.6	64.8	64.0	63.2	76.6	90.0	116.6	124.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P967913

CATALOG NUMBER: NAV-SB5A-835-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7
2.5°	2899.1	2877.5	2857.9	2838.4	2821.3	2804.2	2787.0	2769.9	2756.6	2743.3	2732.5
5°	2854.1	2812.9	2778.5	2744.2	2713.8	2683.4	2656.0	2628.3	2607.2	2585.9	2571.0
7.5°	2831.2	2776.7	2731.4	2686.1	2647.9	2609.6	2575.9	2542.2	2517.0	2491.9	2474.1
10°	2832.8	2775.2	2729.9	2684.6	2643.5	2602.3	2564.3	2526.4	2496.3	2466.0	2446.3
12.5°	2848.9	2801.9	2771.8	2742.0	2709.6	2677.4	2638.0	2598.9	2560.3	2521.8	2496.4
15°	2849.3	2826.8	2830.9	2835.0	2826.6	2818.2	2784.2	2750.1	2695.2	2640.4	2601.8
17.5°	2806.4	2814.6	2864.1	2913.5	2939.7	2965.8	2938.4	2910.9	2838.3	2765.8	2708.7
20°	2716.7	2755.2	2840.9	2926.8	2981.7	3036.7	3024.0	3011.1	2928.1	2845.2	2775.2
22.5°	2598.9	2655.9	2753.7	2851.8	2923.3	2994.7	3002.4	3010.0	2930.8	2851.4	2779.4
25°	2475.4	2541.1	2629.1	2717.3	2787.6	2857.9	2884.1	2910.4	2845.3	2780.4	2716.4
27.5°	2357.6	2421.0	2493.4	2565.7	2622.1	2678.5	2707.7	2737.1	2690.7	2644.5	2594.8
30°	2242.9	2293.4	2353.4	2413.5	2460.2	2507.1	2530.9	2554.7	2519.4	2484.1	2448.6
32.5°	2133.3	2163.2	2211.0	2259.1	2303.9	2348.9	2375.3	2401.8	2369.4	2336.9	2308.5
35°	2027.7	2036.0	2072.5	2109.0	2153.4	2197.9	2229.6	2261.4	2238.2	2215.2	2189.0
37.5°	1922.4	1913.3	1939.6	1965.7	2010.0	2054.4	2093.6	2132.8	2122.2	2111.5	2087.4
40°	1814.4	1793.9	1812.8	1831.8	1874.5	1917.4	1962.5	2007.7	2010.2	2012.7	1992.2
42.5°	1705.2	1678.0	1693.4	1709.0	1749.5	1790.2	1838.8	1887.5	1900.6	1913.6	1896.2
45°	1603.9	1577.6	1590.5	1603.6	1642.2	1680.6	1731.1	1781.7	1800.3	1819.1	1803.4
47.5°	1517.3	1495.1	1507.4	1519.5	1557.2	1594.8	1644.6	1694.4	1716.0	1737.5	1726.6
50°	1439.7	1420.1	1439.1	1458.3	1493.8	1529.3	1573.9	1618.6	1646.2	1673.8	1673.1
52.5°	1380.3	1360.9	1389.5	1418.1	1450.7	1483.2	1524.8	1566.5	1599.2	1631.9	1637.8
55°	1337.2	1306.6	1347.2	1387.7	1422.8	1458.0	1494.4	1530.7	1565.5	1600.2	1608.3
57.5°	1304.1	1259.3	1303.0	1346.7	1388.0	1429.2	1465.2	1501.3	1536.4	1571.2	1579.5
60°	1272.9	1214.7	1253.2	1291.5	1338.8	1386.1	1422.7	1459.4	1494.6	1529.6	1538.7
62.5°	1237.6	1164.9	1189.3	1213.6	1268.8	1324.1	1363.1	1402.2	1434.4	1466.6	1475.3
65°	1189.1	1111.7	1121.1	1130.4	1189.5	1248.8	1286.2	1323.5	1351.9	1380.2	1389.1
67.5°	1123.6	1059.2	1056.3	1053.4	1107.9	1162.7	1198.1	1233.5	1257.9	1282.4	1291.1
70°	1042.7	996.9	986.8	976.6	1024.6	1072.7	1103.2	1133.8	1155.9	1177.9	1186.3
72.5°	946.4	914.9	900.1	885.2	923.0	960.7	988.3	1016.0	1037.6	1059.2	1069.2
75°	827.9	803.6	789.4	775.0	803.1	831.2	856.2	881.2	900.9	920.7	931.0
77.5°	706.6	687.3	672.8	658.3	681.2	704.0	725.5	747.0	767.7	788.3	798.1
80°	566.2	549.9	537.8	525.5	544.6	563.5	581.6	599.7	615.5	631.1	644.0
82.5°	420.5	412.6	404.0	395.3	393.7	392.2	385.8	379.5	413.0	446.5	468.4
85°	273.6	265.1	255.4	245.8	237.6	229.4	211.8	194.2	225.6	257.1	284.3
87.5°	121.2	117.8	116.0	114.2	113.9	113.5	100.1	86.6	99.8	113.1	124.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P967913

CATALOG NUMBER: NAV-SB5A-835-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7
2.5°	2721.8	2713.4	2705.0	2697.3	2689.5	2679.9	2689.5	2697.3	2705.0	2713.4	2721.8
5°	2556.1	2545.7	2535.1	2527.0	2519.0	2511.0	2519.0	2527.0	2535.1	2545.7	2556.1
7.5°	2456.5	2444.4	2432.3	2425.1	2418.0	2412.5	2418.0	2425.1	2432.3	2444.4	2456.5
10°	2426.4	2414.9	2403.5	2397.4	2391.2	2388.8	2391.2	2397.4	2403.5	2414.9	2426.4
12.5°	2470.9	2458.1	2445.4	2440.2	2435.0	2434.1	2435.0	2440.2	2445.4	2458.1	2470.9
15°	2563.0	2545.2	2527.5	2520.7	2513.9	2513.4	2513.9	2520.7	2527.5	2545.2	2563.0
17.5°	2651.6	2625.2	2598.9	2590.3	2581.6	2580.2	2581.6	2590.3	2598.9	2625.2	2651.6
20°	2705.4	2671.7	2637.9	2627.2	2616.4	2613.0	2616.4	2627.2	2637.9	2671.7	2705.4
22.5°	2707.2	2671.9	2636.3	2624.4	2612.4	2607.4	2612.4	2624.4	2636.3	2671.9	2707.2
25°	2652.5	2621.6	2591.0	2579.7	2568.6	2562.1	2568.6	2579.7	2591.0	2621.6	2652.5
27.5°	2545.1	2524.5	2503.8	2498.6	2493.5	2491.9	2493.5	2498.6	2503.8	2524.5	2545.1
30°	2412.7	2402.3	2391.6	2391.6	2391.6	2393.3	2391.6	2391.6	2391.6	2402.3	2412.7
32.5°	2280.0	2273.1	2266.2	2267.1	2268.1	2269.9	2268.1	2267.1	2266.2	2273.1	2280.0
35°	2162.9	2152.3	2141.8	2139.6	2137.3	2136.2	2137.3	2139.6	2141.8	2152.3	2162.9
37.5°	2063.1	2044.0	2025.0	2014.8	2004.8	1999.2	2004.8	2014.8	2025.0	2044.0	2063.1
40°	1971.7	1943.9	1916.2	1897.4	1878.8	1867.8	1878.8	1897.4	1916.2	1943.9	1971.7
42.5°	1879.0	1844.5	1809.9	1782.7	1755.4	1737.5	1755.4	1782.7	1809.9	1844.5	1879.0
45°	1787.9	1748.3	1709.0	1676.9	1644.8	1624.2	1644.8	1676.9	1709.0	1748.3	1787.9
47.5°	1715.7	1680.6	1645.5	1615.8	1586.3	1566.5	1586.3	1615.8	1645.5	1680.6	1715.7
50°	1672.7	1644.6	1616.5	1589.2	1561.7	1542.6	1561.7	1589.2	1616.5	1644.6	1672.7
52.5°	1643.7	1620.8	1598.0	1573.4	1548.9	1531.4	1548.9	1573.4	1598.0	1620.8	1643.7
55°	1616.5	1596.5	1576.7	1555.1	1533.6	1517.7	1533.6	1555.1	1576.7	1596.5	1616.5
57.5°	1587.7	1567.6	1547.4	1526.1	1504.7	1488.3	1504.7	1526.1	1547.4	1567.6	1587.7
60°	1547.7	1528.1	1508.5	1486.5	1464.5	1447.5	1464.5	1486.5	1508.5	1528.1	1547.7
62.5°	1484.0	1466.3	1448.4	1425.4	1402.2	1381.8	1402.2	1425.4	1448.4	1466.3	1484.0
65°	1397.9	1380.8	1363.8	1341.3	1319.0	1301.4	1319.0	1341.3	1363.8	1380.8	1397.9
67.5°	1299.7	1284.0	1268.3	1247.5	1226.6	1210.8	1226.6	1247.5	1268.3	1284.0	1299.7
70°	1194.7	1181.9	1169.1	1149.2	1129.2	1111.1	1129.2	1149.2	1169.1	1181.9	1194.7
72.5°	1079.2	1068.6	1057.9	1038.8	1020.0	1002.4	1020.0	1038.8	1057.9	1068.6	1079.2
75°	941.5	936.2	931.0	915.1	899.1	882.3	899.1	915.1	931.0	936.2	941.5
77.5°	807.8	800.5	793.0	776.9	761.0	747.5	761.0	776.9	793.0	800.5	807.8
80°	656.9	653.7	650.7	629.0	607.3	582.2	607.3	629.0	650.7	653.7	656.9
82.5°	490.5	489.1	487.6	469.3	451.0	434.9	451.0	469.3	487.6	489.1	490.5
85°	311.5	309.2	307.0	292.6	278.4	263.9	278.4	292.6	307.0	309.2	311.5
87.5°	135.0	132.3	129.4	122.1	114.6	107.6	114.6	122.1	129.4	132.3	135.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P967913

CATALOG NUMBER: NAV-SB5A-835-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7
2.5°	2732.5	2743.3	2756.6	2769.9	2787.0	2804.2	2821.3	2838.4	2857.9	2877.5	2899.1
5°	2571.0	2585.9	2607.2	2628.3	2656.0	2683.4	2713.8	2744.2	2778.5	2812.9	2854.1
7.5°	2474.1	2491.9	2517.0	2542.2	2575.9	2609.6	2647.9	2686.1	2731.4	2776.7	2831.2
10°	2446.3	2466.0	2496.3	2526.4	2564.3	2602.3	2643.5	2684.6	2729.9	2775.2	2832.8
12.5°	2496.4	2521.8	2560.3	2598.9	2638.0	2677.4	2709.6	2742.0	2771.8	2801.9	2848.9
15°	2601.8	2640.4	2695.2	2750.1	2784.2	2818.2	2826.6	2835.0	2830.9	2826.8	2849.3
17.5°	2708.7	2765.8	2838.3	2910.9	2938.4	2965.8	2939.7	2913.5	2864.1	2814.6	2806.4
20°	2775.2	2845.2	2928.1	3011.1	3024.0	3036.7	2981.7	2926.8	2840.9	2755.2	2716.7
22.5°	2779.4	2851.4	2930.8	3010.0	3002.4	2994.7	2923.3	2851.8	2753.7	2655.9	2598.9
25°	2716.4	2780.4	2845.3	2910.4	2884.1	2857.9	2787.6	2717.3	2629.1	2541.1	2475.4
27.5°	2594.8	2644.5	2690.7	2737.1	2707.7	2678.5	2622.1	2565.7	2493.4	2421.0	2357.6
30°	2448.6	2484.1	2519.4	2554.7	2530.9	2507.1	2460.2	2413.5	2353.4	2293.4	2242.9
32.5°	2308.5	2336.9	2369.4	2401.8	2375.3	2348.9	2303.9	2259.1	2211.0	2163.2	2133.3
35°	2189.0	2215.2	2238.2	2261.4	2229.6	2197.9	2153.4	2109.0	2072.5	2036.0	2027.7
37.5°	2087.4	2111.5	2122.2	2132.8	2093.6	2054.4	2010.0	1965.7	1939.6	1913.3	1922.4
40°	1992.2	2012.7	2010.2	2007.7	1962.5	1917.4	1874.5	1831.8	1812.8	1793.9	1814.4
42.5°	1896.2	1913.6	1900.6	1887.5	1838.8	1790.2	1749.5	1709.0	1693.4	1678.0	1705.2
45°	1803.4	1819.1	1800.3	1781.7	1731.1	1680.6	1642.2	1603.6	1590.5	1577.6	1603.9
47.5°	1726.6	1737.5	1716.0	1694.4	1644.6	1594.8	1557.2	1519.5	1507.4	1495.1	1517.3
50°	1673.1	1673.8	1646.2	1618.6	1573.9	1529.3	1493.8	1458.3	1439.1	1420.1	1439.7
52.5°	1637.8	1631.9	1599.2	1566.5	1524.8	1483.2	1450.7	1418.1	1389.5	1360.9	1380.3
55°	1608.3	1600.2	1565.5	1530.7	1494.4	1458.0	1422.8	1387.7	1347.2	1306.6	1337.2
57.5°	1579.5	1571.2	1536.4	1501.3	1465.2	1429.2	1388.0	1346.7	1303.0	1259.3	1304.1
60°	1538.7	1529.6	1494.6	1459.4	1422.7	1386.1	1338.8	1291.5	1253.2	1214.7	1272.9
62.5°	1475.3	1466.6	1434.4	1402.2	1363.1	1324.1	1268.8	1213.6	1189.3	1164.9	1237.6
65°	1389.1	1380.2	1351.9	1323.5	1286.2	1248.8	1189.5	1130.4	1121.1	1111.7	1189.1
67.5°	1291.1	1282.4	1257.9	1233.5	1198.1	1162.7	1107.9	1053.4	1056.3	1059.2	1123.6
70°	1186.3	1177.9	1155.9	1133.8	1103.2	1072.7	1024.6	976.6	986.8	996.9	1042.7
72.5°	1069.2	1059.2	1037.6	1016.0	988.3	960.7	923.0	885.2	900.1	914.9	946.4
75°	931.0	920.7	900.9	881.2	856.2	831.2	803.1	775.0	789.4	803.6	827.9
77.5°	798.1	788.3	767.7	747.0	725.5	704.0	681.2	658.3	672.8	687.3	706.6
80°	644.0	631.1	615.5	599.7	581.6	563.5	544.6	525.5	537.8	549.9	566.2
82.5°	468.4	446.5	413.0	379.5	385.8	392.2	393.7	395.3	404.0	412.6	420.5
85°	284.3	257.1	225.6	194.2	211.8	229.4	237.6	245.8	255.4	265.1	273.6
87.5°	124.0	113.1	99.8	86.6	100.1	113.5	113.9	114.2	116.0	117.8	121.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P967913

CATALOG NUMBER: NAV-SB5A-835-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7
2.5°	2920.8	2947.7	2971.9	2996.8	3021.7	3047.7	3073.8	3099.6	3125.5	3149.9	3174.2
5°	2895.1	2942.1	2989.6	3040.0	3090.5	3144.4	3198.4	3251.9	3305.6	3359.4	3413.2
7.5°	2885.8	2946.6	3011.6	3081.9	3152.2	3232.0	3311.9	3393.9	3475.9	3564.5	3653.4
10°	2890.3	2955.7	3035.7	3119.1	3202.2	3299.3	3396.2	3504.6	3612.9	3725.2	3837.4
12.5°	2895.9	2956.8	3041.0	3135.1	3229.2	3343.6	3458.0	3580.7	3703.5	3826.8	3950.1
15°	2871.8	2920.5	3013.8	3122.8	3231.7	3363.4	3495.1	3628.3	3761.5	3890.1	4018.6
17.5°	2798.2	2828.3	2937.9	3069.0	3199.9	3352.9	3505.8	3651.2	3796.4	3926.8	4057.2
20°	2678.1	2686.1	2813.7	2976.2	3138.5	3323.9	3509.2	3668.9	3828.6	3964.2	4099.7
22.5°	2541.9	2526.4	2671.7	2867.3	3062.9	3288.3	3513.7	3692.9	3871.9	4010.5	4148.9
25°	2409.7	2367.9	2516.8	2745.8	2975.0	3253.2	3531.6	3736.4	3941.0	4076.6	4212.3
27.5°	2294.2	2243.2	2378.8	2634.7	2890.5	3229.8	3568.9	3804.4	4039.6	4169.1	4298.4
30°	2192.6	2152.6	2266.5	2541.8	2817.1	3218.8	3620.2	3892.3	4164.6	4289.5	4414.6
32.5°	2103.6	2085.8	2177.5	2461.7	2745.8	3205.2	3664.4	3984.2	4304.1	4427.8	4551.6
35°	2019.6	2026.8	2103.3	2383.0	2662.6	3179.5	3696.8	4088.9	4481.0	4599.6	4718.1
37.5°	1931.4	1958.4	2025.2	2290.4	2555.5	3135.8	3716.0	4206.1	4696.2	4847.3	4998.4
40°	1834.9	1876.3	1936.8	2179.8	2422.8	3075.4	3728.1	4354.9	4981.6	5201.9	5422.0
42.5°	1732.4	1784.5	1840.4	2057.8	2275.3	3013.1	3751.1	4549.7	5348.1	5666.0	5983.8
45°	1630.5	1680.9	1737.5	1928.2	2119.0	2955.2	3791.6	4805.8	5820.2	6248.8	6677.6
47.5°	1539.6	1582.9	1656.0	1825.7	1995.5	2907.4	3819.4	5078.8	6338.3	6941.8	7545.2
50°	1459.4	1509.8	1605.9	1757.7	1909.5	2855.3	3801.2	5332.0	6863.0	7772.8	8682.4
52.5°	1399.7	1470.2	1580.7	1712.8	1845.1	2767.3	3689.6	5496.6	7303.3	8645.6	9987.7
55°	1368.1	1474.2	1576.9	1680.3	1783.7	2621.4	3459.2	5460.3	7461.4	9419.3	11377.5
57.5°	1349.0	1478.2	1568.8	1641.7	1714.8	2415.7	3116.5	5205.3	7294.1	9967.8	12641.5
60°	1331.1	1465.6	1525.5	1582.9	1640.3	2148.6	2657.0	4730.6	6804.1	10104.9	13405.6
62.5°	1310.3	1435.1	1442.5	1480.5	1518.6	1829.0	2139.4	4088.6	6038.0	9527.8	13017.6
65°	1266.3	1361.4	1360.6	1378.5	1396.6	1541.4	1686.3	3433.7	5181.4	8711.3	12241.2
67.5°	1188.0	1241.4	1243.8	1233.9	1223.8	1265.1	1306.2	2792.2	4278.2	7739.6	11200.8
70°	1088.4	1106.1	1106.1	1059.4	1012.8	1001.1	989.3	2198.5	3407.6	6679.3	9950.9
72.5°	977.7	977.4	966.4	900.4	834.2	798.7	763.2	1680.8	2598.3	5529.9	8461.5
75°	852.0	856.3	805.1	731.0	656.9	624.7	592.7	1219.9	1847.2	4212.2	6577.3
77.5°	726.0	728.3	643.9	571.9	500.1	478.1	456.2	826.7	1197.0	2948.2	4699.4
80°	582.4	582.7	482.0	421.1	360.2	351.2	342.0	532.6	723.2	1899.4	3075.7
82.5°	428.3	423.6	337.5	292.6	247.8	246.0	244.5	327.6	410.9	1099.3	1787.9
85°	282.1	275.8	211.8	179.0	146.1	147.0	147.8	175.1	202.5	494.6	786.6
87.5°	124.6	116.6	90.0	76.6	63.2	64.0	64.8	72.6	80.5	162.0	243.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P967913

CATALOG NUMBER: NAV-SB5A-835-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7
2.5°	3186.3	3198.4	3215.5	3232.6	3242.8	3252.9	3258.1	3263.2	3260.9	3263.2	3258.1
5°	3455.3	3497.4	3539.1	3580.8	3603.5	3626.2	3639.9	3653.7	3664.2	3653.7	3639.9
7.5°	3721.8	3790.0	3851.6	3913.1	3950.1	3987.1	4007.2	4027.1	4036.8	4027.1	4007.2
10°	3918.3	3999.1	4071.3	4143.5	4187.2	4230.7	4250.2	4269.5	4276.9	4269.5	4250.2
12.5°	4037.8	4125.3	4190.6	4255.6	4287.4	4319.0	4329.7	4340.4	4341.5	4340.4	4329.7
15°	4094.4	4169.9	4210.8	4251.8	4252.9	4254.1	4242.7	4231.4	4218.0	4231.4	4242.7
17.5°	4108.3	4159.3	4160.2	4160.8	4115.0	4069.0	4027.0	3984.9	3955.3	3984.9	4027.0
20°	4117.4	4135.4	4081.6	4027.7	3926.5	3825.2	3751.5	3677.7	3632.4	3677.7	3751.5
22.5°	4125.6	4102.3	3990.8	3879.3	3730.4	3581.5	3489.3	3397.1	3347.0	3397.1	3489.3
25°	4138.7	4065.0	3895.9	3726.7	3545.8	3364.9	3267.9	3171.2	3123.9	3171.2	3267.9
27.5°	4166.8	4035.1	3811.0	3586.9	3386.4	3185.9	3090.6	2995.3	2950.6	2995.3	3090.6
30°	4218.2	4022.1	3746.2	3470.2	3261.3	3052.6	2964.1	2875.5	2833.9	2875.5	2964.1
32.5°	4282.8	4014.1	3702.0	3389.8	3193.5	2997.2	2927.8	2858.2	2828.3	2858.2	2927.8
35°	4389.2	4060.3	3735.0	3409.9	3273.4	3137.2	3121.0	3104.8	3102.4	3104.8	3121.0
37.5°	4611.5	4224.5	3928.9	3633.3	3624.5	3615.7	3689.7	3763.8	3802.3	3763.8	3689.7
40°	5001.3	4580.4	4360.7	4140.8	4296.0	4451.1	4631.2	4811.2	4901.0	4811.2	4631.2
42.5°	5566.4	5148.8	5022.2	4895.6	5234.0	5572.4	5900.0	6227.6	6419.9	6227.6	5900.0
45°	6302.5	5927.4	5871.6	5815.6	6357.8	6900.1	7438.3	7976.8	8303.5	7976.8	7438.3
47.5°	7180.3	6815.4	6804.1	6792.8	7575.0	8356.9	9144.9	9932.9	10395.6	9932.9	9144.9
50°	8231.7	7781.1	7783.0	7785.0	8793.1	9801.0	10841.2	11881.3	12510.1	11881.3	10841.2
52.5°	9442.0	8896.4	8841.2	8786.0	9990.2	11194.2	12481.2	13768.0	14521.8	13768.0	12481.2
55°	10838.3	10299.2	10084.2	9869.0	11209.2	12549.3	14083.4	15617.6	16514.1	15617.6	14083.4
57.5°	12348.0	12054.3	11622.9	11191.6	12544.7	13897.9	15635.7	17373.2	18485.0	17373.2	15635.7
60°	13861.6	14317.6	13781.9	13246.2	14526.7	15807.3	17667.8	19528.3	20729.8	19528.3	17667.8
62.5°	14263.6	15509.7	15449.3	15388.8	16561.9	17735.1	19505.2	21275.2	22385.8	21275.2	19505.2
65°	13410.6	14580.1	14811.5	15042.8	16533.6	18024.5	19740.9	21457.2	22402.8	21457.2	19740.9
67.5°	12313.1	13425.3	13533.9	13642.2	15195.6	16748.8	18472.6	20196.4	20937.2	20196.4	18472.6
70°	11160.7	12370.6	12419.1	12467.7	13856.8	15245.7	16729.2	18212.5	18624.2	18212.5	16729.2
72.5°	9849.8	11238.2	11273.1	11307.9	12394.6	13481.4	14592.4	15703.3	15745.0	15703.3	14592.4
75°	8014.2	9451.1	9580.1	9709.1	10554.6	11400.2	12182.2	12964.4	12754.8	12964.4	12182.2
77.5°	6040.6	7382.0	7566.7	7751.4	8394.1	9036.9	9591.5	10146.3	9786.1	10146.3	9591.5
80°	4204.1	5332.6	5562.1	5791.5	6276.9	6762.1	7053.5	7344.7	6765.3	7344.7	7053.5
82.5°	2559.3	3330.9	3587.2	3843.6	4177.8	4511.9	4633.5	4754.9	4299.6	4754.9	4633.5
85°	1196.1	1605.6	1823.6	2041.6	2316.2	2590.6	2659.6	2728.5	2363.9	2728.5	2659.6
87.5°	381.1	518.8	640.4	762.1	899.3	1036.6	1042.5	1048.3	880.1	1048.3	1042.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P967913

CATALOG NUMBER: NAV-SB5A-835-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7	2951.7
2.5°	3252.9	3242.8	3232.6	3215.5	3198.4	3186.3	3174.2
5°	3626.2	3603.5	3580.8	3539.1	3497.4	3455.3	3413.2
7.5°	3987.1	3950.1	3913.1	3851.6	3790.0	3721.8	3653.4
10°	4230.7	4187.2	4143.5	4071.3	3999.1	3918.3	3837.4
12.5°	4319.0	4287.4	4255.6	4190.6	4125.3	4037.8	3950.1
15°	4254.1	4252.9	4251.8	4210.8	4169.9	4094.4	4018.6
17.5°	4069.0	4115.0	4160.8	4160.2	4159.3	4108.3	4057.2
20°	3825.2	3926.5	4027.7	4081.6	4135.4	4117.4	4099.7
22.5°	3581.5	3730.4	3879.3	3990.8	4102.3	4125.6	4148.9
25°	3364.9	3545.8	3726.7	3895.9	4065.0	4138.7	4212.3
27.5°	3185.9	3386.4	3586.9	3811.0	4035.1	4166.8	4298.4
30°	3052.6	3261.3	3470.2	3746.2	4022.1	4218.2	4414.6
32.5°	2997.2	3193.5	3389.8	3702.0	4014.1	4282.8	4551.6
35°	3137.2	3273.4	3409.9	3735.0	4060.3	4389.2	4718.1
37.5°	3615.7	3624.5	3633.3	3928.9	4224.5	4611.5	4998.4
40°	4451.1	4296.0	4140.8	4360.7	4580.4	5001.3	5422.0
42.5°	5572.4	5234.0	4895.6	5022.2	5148.8	5566.4	5983.8
45°	6900.1	6357.8	5815.6	5871.6	5927.4	6302.5	6677.6
47.5°	8356.9	7575.0	6792.8	6804.1	6815.4	7180.3	7545.2
50°	9801.0	8793.1	7785.0	7783.0	7781.1	8231.7	8682.4
52.5°	11194.2	9990.2	8786.0	8841.2	8896.4	9442.0	9987.7
55°	12549.3	11209.2	9869.0	10084.2	10299.2	10838.3	11377.5
57.5°	13897.9	12544.7	11191.6	11622.9	12054.3	12348.0	12641.5
60°	15807.3	14526.7	13246.2	13781.9	14317.6	13861.6	13405.6
62.5°	17735.1	16561.9	15388.8	15449.3	15509.7	14263.6	13017.6
65°	18024.5	16533.6	15042.8	14811.5	14580.1	13410.6	12241.2
67.5°	16748.8	15195.6	13642.2	13533.9	13425.3	12313.1	11200.8
70°	15245.7	13856.8	12467.7	12419.1	12370.6	11160.7	9950.9
72.5°	13481.4	12394.6	11307.9	11273.1	11238.2	9849.8	8461.5
75°	11400.2	10554.6	9709.1	9580.1	9451.1	8014.2	6577.3
77.5°	9036.9	8394.1	7751.4	7566.7	7382.0	6040.6	4699.4
80°	6762.1	6276.9	5791.5	5562.1	5332.6	4204.1	3075.7
82.5°	4511.9	4177.8	3843.6	3587.2	3330.9	2559.3	1787.9
85°	2590.6	2316.2	2041.6	1823.6	1605.6	1196.1	786.6
87.5°	1036.6	899.3	762.1	640.4	518.8	381.1	243.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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